

Title (en)
Curable organopolysiloxane composition

Title (de)
Härtbare Organopolysiloxanmassen

Title (fr)
Composition d'organopolysiloxane durcissable

Publication
EP 0994159 A1 20000419 (DE)

Application
EP 99117453 A 19990909

Priority
DE 19847097 A 19981013

Abstract (en)
Addition-cured organopolysiloxane materials in which the hydrosilylation catalyst is a platinum complex with a pi-bonded diene ligand and two alkynyl groups attached to platinum. Curable organopolysiloxane materials comprising (A) compounds containing residues with aliphatic carbon-carbon multiple bonds and (B) organopolysiloxanes with hydrogen atoms attached to silicon or (instead of A and B) (C) organopolysiloxanes containing both SiC-linked unsaturated residues as above and Si-linked hydrogen atoms, plus (D) platinum catalysts of formula (III), (IV), (V) or (VI): R<2> = optionally substituted diene attached to Pt by pi-bond(s), comprising a 4-12C optionally branched chain or a 6-18C ring structure; R<3> = H, halogen, or 1-24C hydrocarbyl (optionally substituted with halogen or cyano groups); R<4> = optionally substituted 1-24C hydrocarbylene; R<5> = optionally substituted 1-12C hydrocarbylene or a silane or siloxane group; R<6> = H or 1-20C hydrocarbyl; e = 1 or more; f = 0 or 1. Independent claims are also included for: (a) platinum catalysts as above with preferred R<2> groups; and (b) molded products obtained by crosslinking these materials.

Abstract (de)
Härtbare Organopolysiloxanmassen, enthaltend (D) Platinkatalysator, ausgewählt aus der Gruppe bestehend aus <IMAGE> und H-C[^]C-(R<5>)-f-C[^]C-[-Pt(R<2>)-C[^]C-(R<5>)]-f-C[^]C-]e-H, wobei, R<2>, R<3>, R<4>, R<5>, R<6>, e und f die in Anspruch 1 genannten Bedeutungen haben.

IPC 1-7
C08L 83/07; **C08K 5/00**; **C07F 15/00**

IPC 8 full level
C08L 83/05 (2006.01); **B01J 31/22** (2006.01); **C07F 15/00** (2006.01); **C08G 77/08** (2006.01); **C08G 77/12** (2006.01); **C08G 77/20** (2006.01); **C08G 77/38** (2006.01); **C08K 5/00** (2006.01); **C08L 83/04** (2006.01); **C08L 83/07** (2006.01)

CPC (source: EP US)
C07F 15/0086 (2013.01 - EP US); **C08K 5/0091** (2013.01 - EP US); **C08L 83/04** (2013.01 - EP US); **C08G 77/12** (2013.01 - EP US); **C08G 77/20** (2013.01 - EP US)

C-Set (source: EP US)
1. **C08K 5/0091** + **C08L 83/04**
2. **C08L 83/04** + **C08L 83/00** + **C08L 2666/52**

Citation (search report)
• [A] US 5525564 A 19960611 - MCAFEE RICHARD [US], et al
• [A] EP 0173512 A2 19860305 - DOW CORNING [US]
• [A] DE 4429411 A1 19960222 - WACKER CHEMIE GMBH [DE]
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